PATENT Atty. Docket No. PP1641.102

readable format is the same as the paper sequence listing. Also accompanying this amendment is a diskette with the computer readable format.

Applicants respectfully submit that the application is now in condition for examination, and solicit such action at an early date. If there are any questions that could be resolved by a telephone interview, the Examiner is invited to telephone the undersigned at the number below.

Respectfully submitted,

Dated: 100 22, 2002

Rebecca M. Hale Reg. No. 45,680

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TABLE III – N-TERMINAL SEQUENCES OF PROTEINS

Spot #	N-terminal sequen	се	
10	SKETFQRNK	(SEQ ID.	NO. 1)
12	TTESLETLVE	(SEQ. ID	NO. 2)
15	LAVSSGDQEVSQE	DLLKE 9	(SEQ. ID NO. 3)
18	XPAGNPAFPVIP	(SEQ. ID	NO. 4)
21	AKTRTLKGDG	(SEQ ID N	10. <u>5)</u>
24	SDSSHNLLYNK	(SEQ ID N	10. <u>6)</u>
25	VLLYSQASWDQRS	KADAL	(SEQ. ID NO. 7)
26	KAVYVQD(A/Q)E(V	/D)Q	(SEQ. ID NO. 8)
31	KDxxTNGQR	(SEQ ID N	1O. 9)
33	MSKGGQtxD(Y/G)	(SEQ. ID	NO. 10)
38	XQXENGIVGL	(SEQ. ID	NO. 11)
46	MPAGNPAFPVIP	(SEQ. ID	NO. 12)

TABLE IV – IDENTIFICATION OF ANTIGENS

"CT-D gene" refers to the gene name from reference 2 and gives the names of genes likely to encode homologue proteins in *C.trachomatis* D. Theoretical pI/MW values in the last column, to be compared to the experimental values, were calculated the from CT-D gene sequences.

spot	Map location	N-terminal AA seq	Annotation	CT-D gene	Predicted pl/MW
1	OMP2 cluster	-	OMP2	omcB	7.65-7.92/54.5-58.7
2	5.2-5.3/59.7	VA(D/K)NI(K/F)YNEE (SEQ ID NO. 13)	GroEL-like	groEL1	5.11/58.1
3	4.6-4.9/40	LPVGN (SEQ ID NO. 14)	MOMP	ompA	4.69/40.3
4	4.92-5.04/70.5	SEKRK(S/A)N(K/S). (SEQ ID NO. 15)	DnaK-like	dnaK	4.88/70.7
10	5.44-5.64/42.2	SKETFQRNK (SEQ ID NO. 1)	EF-Tu	tufA	5.36/43.1
12	4.80/15.8	TTESLETLVE (SEQ ID NO. 2)	Ribosomal protein L7/12	rl7	5.09/13.5
15	5.89/48.4	LAVSSGDQEVSQEDLLKE (SEQ ID NO. 3)	stress induced protease	htrA	5.83/49.5
18	5.08/34.09	XPAGNPAFPVIP (SEQ ID NO. 4)	outer membrane protein	ompB	5.06/34.5
19	5.14-5.28/69	Not determined	Ribosomal protein S1	rs1	5.17/63.6
21	5.27/40.5	AKTRTLKGDG (SEQ ID NO. 5)	EF-Tu related peptide?	-	-
24	5.32/40.5	SDSSHNLLYNK (SEQ ID NO. 6)	RNAP alpha chain	гроА	5.34/41.7
25	5.97/47.6	VLLYSQASWDQRSKADAL (SEQ ID NO. 7)	Aminopeptidase	pepA	5.74/54.0
26	5.68/48.6	KAVYVQD(A/Q)E(V/D)Q (SEQ ID NO. 8)	Not identified	-	-
31	5.43/40.4	KDxxTNGQR (SEQ ID NO. 9)	Not identified	-	-
33	6.64/25.4	MSKGGQtxD(Y/G) (SEQ ID NO. 10)	Not identifi d	-	-
38	5.23/40.1	XQXENGIVGL (SEQ ID NO. 11)	GTP-binding prot in	ychF	5.16/39.5
46	5.19/33.4	MPAGNPAFPVIP (SEQ ID NO. 12)	outer membrane protein	ompB	5.06/34.5